SEALED KEYBOARDS

P/N 152063

SPECIFICATIONS

Rating Criteria

Rating at 24 Vdc: 10 milliamps, resistive
Contact Resistance: Compatible with MOS, TTL and DTL (10 ohms maximum)
Voltage Breakdown: 250 Vac between mutually insulated parts
Life Expectancy: 3,000,000 operations per button

Contact Bounce: Less than 4 milliseconds at make, 10 milliseconds at break
Temperature: -40°C to +80°C

Operating Features

Button Travel: 0.015"(0,38 mm) nominal total travel
Typical Operating Force: 350 grams

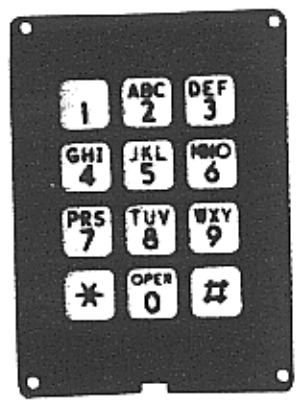
Materials and Finishes

Housing: ABS polycarbonate, black
Graphic Overlay: Polyester
Contact Dome: Stainless steel, selectively gold plated
Terminals: Copper alloy, CDA No. 725. Tin-lead plated

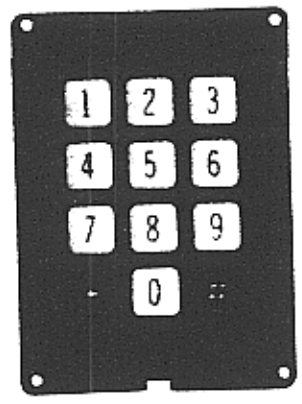
STANDARD LEGENDS

Colorful graphic overlays are polyester with a tough acrylic bond to provide maximum protection against dirt and moisture. Second surface printed, the overlay wipes clean and continues to look bright and bold throughout the keyboard life. Available through distributors.

For instant custom legends, order separate blank keyboards as indicated in the Ordering Information section and choose one of the clear window overlays below; then order a sheet of legend inserts. Or, if you prefer, order the keyboard custom printed by Grayhill; see Ordering Information.



-143



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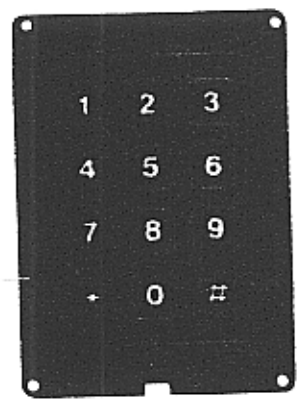

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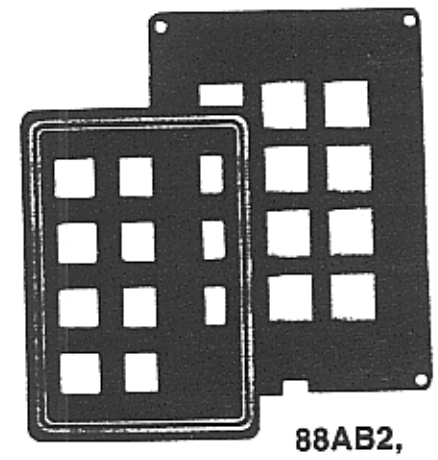
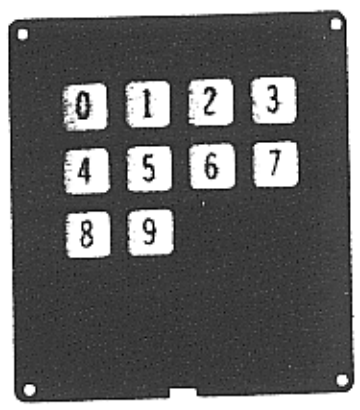


88-101

88AB2, 88AC2



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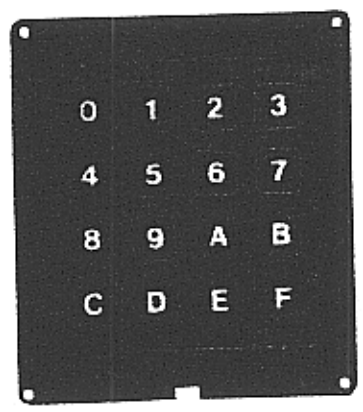

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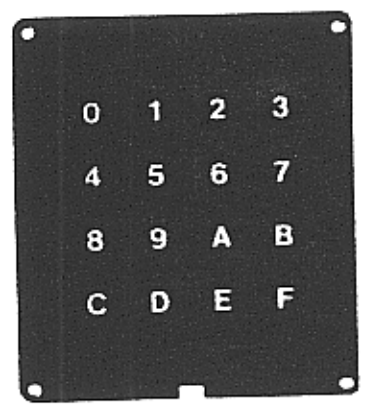

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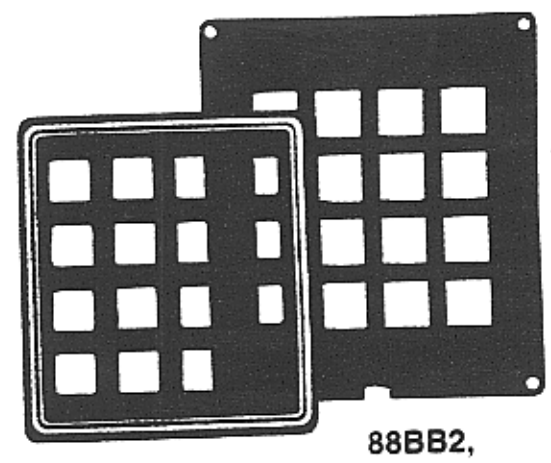
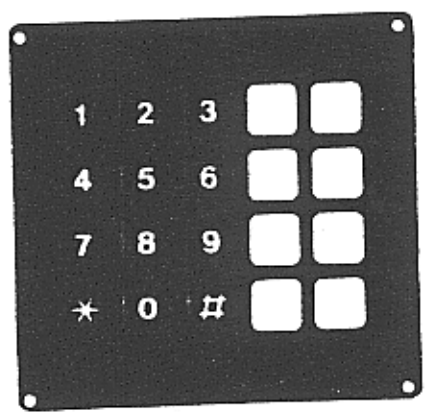


88-001

88BB2, 88BC2



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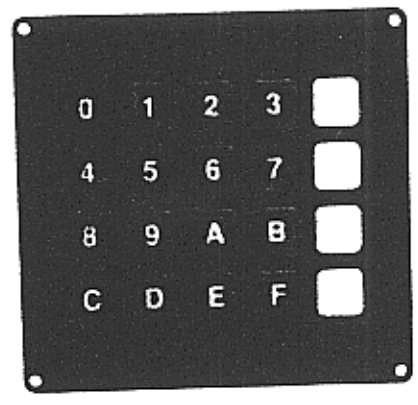

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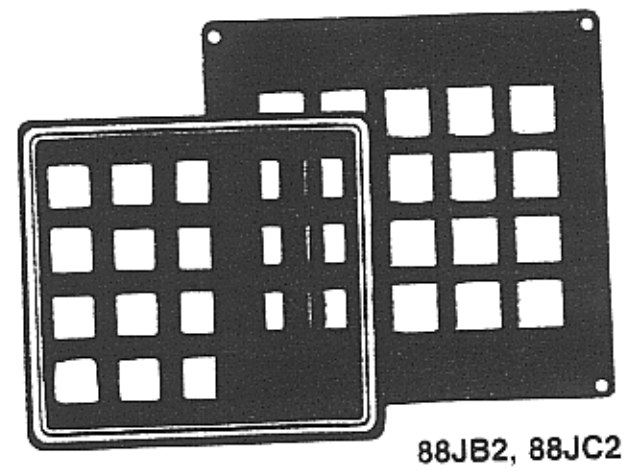


88-201

88JB2, 88JC2

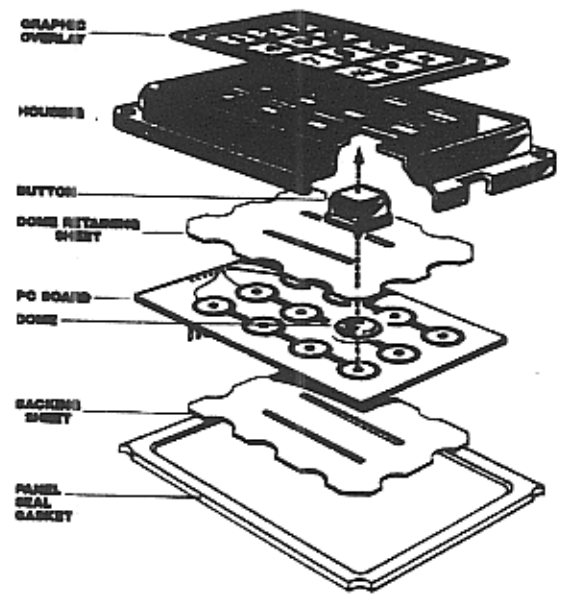
SEALING OF KEYBOARDS

The graphic legend is silk-screen printed on the second surface of a clear polyester film, providing maximum legend protection. It withstands high humidity, and it is resistant to scratching, marring, and dulling of the surface caused by fingernails, wiping cloths, and cleaning materials. It has excellent solvent resistance to water, petroleum oil, alcohols and aliphatic hydrocarbons.

These common liquids do not attack the overlay: 5% acetic acid, 5% citric acid, 2% detergent solution, soapy water, 30% hydrogen peroxide, wine, beer, whiskey, coffee, cocoa, milk, tomato juice, lemon juice, etc. Hydrocarbons, ketones and freon do not affect the overlay. But, we recommend that you do not subject the keyboard to these chemicals, since they may affect the switch housing, which is ABS plastic. To discuss a particular solvent, contact GRAYHILL.

Protect your equipment in outdoor or harsh environmental conditions by sealing the keyboard to the equipment panel. Use an optional gasket with the keyboard. There are two types of gaskets: one for mounting the keyboard beneath the panel, and one for mounting it above the equipment panel. See Panel Seal Gaskets below.

The contact system is internally sealed by a special adhesive backed sheet that holds the domes in position on the PC board.



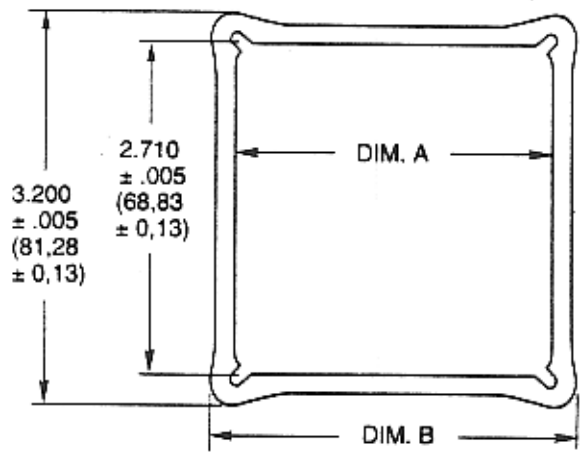
PANEL SEAL GASKETS

Weatherproof and waterproof your subpanel and topside mounted keyboards with optional panel seal gaskets.

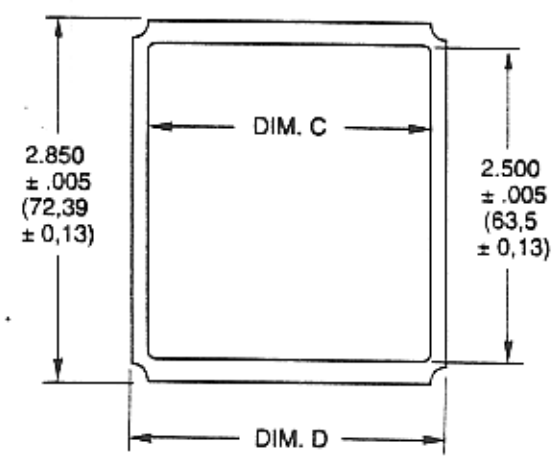
Subpanel keyboard gasket is .062" (1,57 mm) thick; topside keyboard gasket is .094" (2,39 mm).

Material is cellulose fiber, foam, nitrile rubber. Order gaskets separately from keyboard.

Subpanel Mounting



Topside Mounting



Subpanel 3x4	**Part No. 88M2001-2**
Subpanel 4x4	**Part No. 88M2009-2**
Subpanel 5x4	**Part No. 88M2019-1**
Topside 3x4	**Part No. 88M2012-1**
Topside 4x4	**Part No. 88M2015-1**
Topside 5x4	**Part No. 88M2018-1**

Size of Keyboard	Subpanel Mount Dim. A	Subpanel Mount Dim. B	Topside Mount Dim. C	Topside Mount Dim. D
3x4	2.010 ± .005 (51,05 ± 0,.13)	2.400 ± .005 (60,96 ± 0,13)	1.800 ± .005 (45,72 ± 0,13)	2.040 ± .005 (51,82 ± 0,13)
4x4	2.510 ± .005 (63,75 ± 0,13)	2.900 ± .005 (73,66 ± 0,13)	2.300 ± .005 (58,42 ± 0,13)	2.540 ± .005 (64,52 ± 0,13)
5x4	3.010 ± .005 (76,45 ± 0,13)	3.400 ± .005 (86,36 ± 0,13)	2.800 ± .005 (71,12 ± 0,13)	3.040 ± .005 (77,22 ± 0,13)